

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) An array of wafer scale polymeric caps, made by a molding method, the method including:
forming, in a two part mold, an array of first hollow molded caps, from a layer of thermoplastic material which is placed in a mold, the mold having first and second mold halves which are brought together to form the array of wafer scale polymeric caps, each cap having a central portion and a perimeter wall; and
opening the mold so that the array of caps is carried by the first mold half.
2. (Currently amended) The array made by the method of claim 1 further comprising the step of:
applying, using the first mold half, the first hollow molded caps to one side of a wafer; then
separating the wafer into individual chips.
3. (Original) The array made by the method of claim 2 wherein, the mold is made from the same semiconductor as is the wafer.
4. (Currently amended) The array made by the method of claim 1 wherein, the wafer is separated into individual packages by a deep plasma etch of the wafer for which the first hollow molded caps are a mask.
5. (Currently amended) The array made by the method of claim 1 wherein, applying the first hollow molded caps further comprises using a cooperating release wafer having eject pins to urge ~~a cap~~ the first hollow molded caps into position.
6. (Currently amended) The array made by the method of claim 5 wherein, the first mold half has openings for receiving the eject pins, the pins being longer than the openings.
7. (Currently amended) The array made by the method of claim 5 wherein, there is a gap between the first mold half and the cooperating release wafer and using the release

wafer further comprises applying a vacuum to the gap to draw the release wafer toward the first mold half.

8. (Original) The array made by the method of claim 1 wherein, the cap is formed from a layer of thermoplastic material that is inserted into the mold between the halves.

9. (Currently amended) The array made by the method of claim 8 wherein, forming the cap comprises heating the thermoplastic material with infrared radiation, the mold being essentially transparent to ~~the~~ said infrared radiation.

10. (Original) The array made by the method of claim 1 wherein, the first and second mold halves each have holes for receiving eject pins which are formed on adjacent release wafers, the pins being longer than the holes.

11. (Original) The array made by the method of claim 1 wherein, the thermoplastic material is 200-500 microns thick prior to being formed into caps.

12. (Currently amended) The array made by the method of claim 1 wherein, when the mold is closed, there is a thin layer of the material from which the array of wafer scale polymeric caps are formed joining the caps into an array and the thin layer is removed by mechanical means.

13. (Original) The array made by the method of claim 1 wherein, when the mold is opened, there is a thin layer of the material from which the caps are formed joining the caps into an array and the thin layer is removed by an etching process.

14. (Original) The array made by the method of claim 12 wherein, the thin layer is removed by the closure of the molds without recourse to etching.

15. (Currently amended) The array made by the method of claim 12, wherein, the first mold half has first portions which separate adjacent areas; the second mold half has second portions which separate adjacent grooves; the first and second portions coming together when the halves are brought together such that material is squeezed out from between the first and second portions, separating adjacent caps.

16. (Original) The array made by the method of claim 1, wherein, the first mold half has a lower surface into which is formed a series of recesses defined by lateral edges, the second mold half having an upper surface in which is formed a series of grooves, the grooves aligning with the edges, the recesses and grooves having a repeat spacing that corresponds to a spacing on a wafer to which the caps will be applied.

17. (Original) The array made by the method of claim 15, wherein the first and second portions of the molds have not been etched.

18. (Currently amended) The array made by the method of claim 1, wherein:
the first mold half includes first holes formed through it;
there being provided a first half release wafer from which project pins;
the pins located in registry with the first holes;
the first half having a thickness in the area of the first holes, the pins being longer than the thickness;
the first half release wafer having a first position in which the pins are flush with interior ends of the first holes;
there being a gap between the first half and the first half release wafer when the first half release wafer is in the first position; and wherein
a vacuum is applied to the gap to eject the caps.

19. (Currently amended) The array made by the method of claim 18, wherein:
the second mold half includes second holes formed through it;
there being provided a second half release wafer from which project pins;
the pins located in registry with the second holes;
the second half having a thickness in the area of the second holes, the pins being longer than the thickness;
the second half release wafer having a first position in which the pins are flush with an interior end of the second holes;
there being a second gap between the second half and the second half release wafer when the second half release wafer is in the first position.

20. (Original) The array made by the method of claim 18, wherein:
the holes are formed by electron beam or X-ray lithography.